

GEORGE ENGELMANN BOTANICAL NOTEBOOKS

*Pagination Note:
Since many of the items lack a specific page number, the page number displayed online refers to the sequentially created number each item was given upon cataloging the materials.*

9 Feb

P. Mungo'sii

P. Lichenensis Bong

32

F A U T H & C O., W A S H I N G T O N , D . C.

one piece on a ring fitting tightly around the compass-ring, which insures a large bearing. Each Y has three legs, the two outer ones being curved so as to stand well in towards the centre of the plate, while the middle one is directly under the bearing. By thus casting a great many parts in the whole, which are usually made in pieces and screwed together, the instrument, while it is very much *stronger*, stays also better in adjustment. The centres are of the hardest phosphor-bronze, and are long and compound. An arrangement for offsetting at right angles is provided. The telescope is balanced in axis and reverses at both ends; it shows objects erect, unless otherwise ordered, is perfectly achromatic, defines sharply, and has a perfectly flat field, which is essential, especially in stadia measurements. The eye-piece is achromatic, and, if desired, is constructed to vary the magnifying power from 20 to 30 diameter. The tangent-screws are of German silver, working in red metal, this ensuring a beautiful, smooth motion; they are so constructed that no dead play can take place. The compass-needle is 5 inches long, made of superior steel, and evenly tempered; it rests with a cap of granite on a strong tempered steel pivot.

No. 57.—Transit as shown on cut; circles $6\frac{3}{4}$ inches diameter, divided on silver, either plane or bevelled edge, reading by two verniers to 30 seconds; glass shades to throw light on verniers are provided. The compass-plate reaches over and

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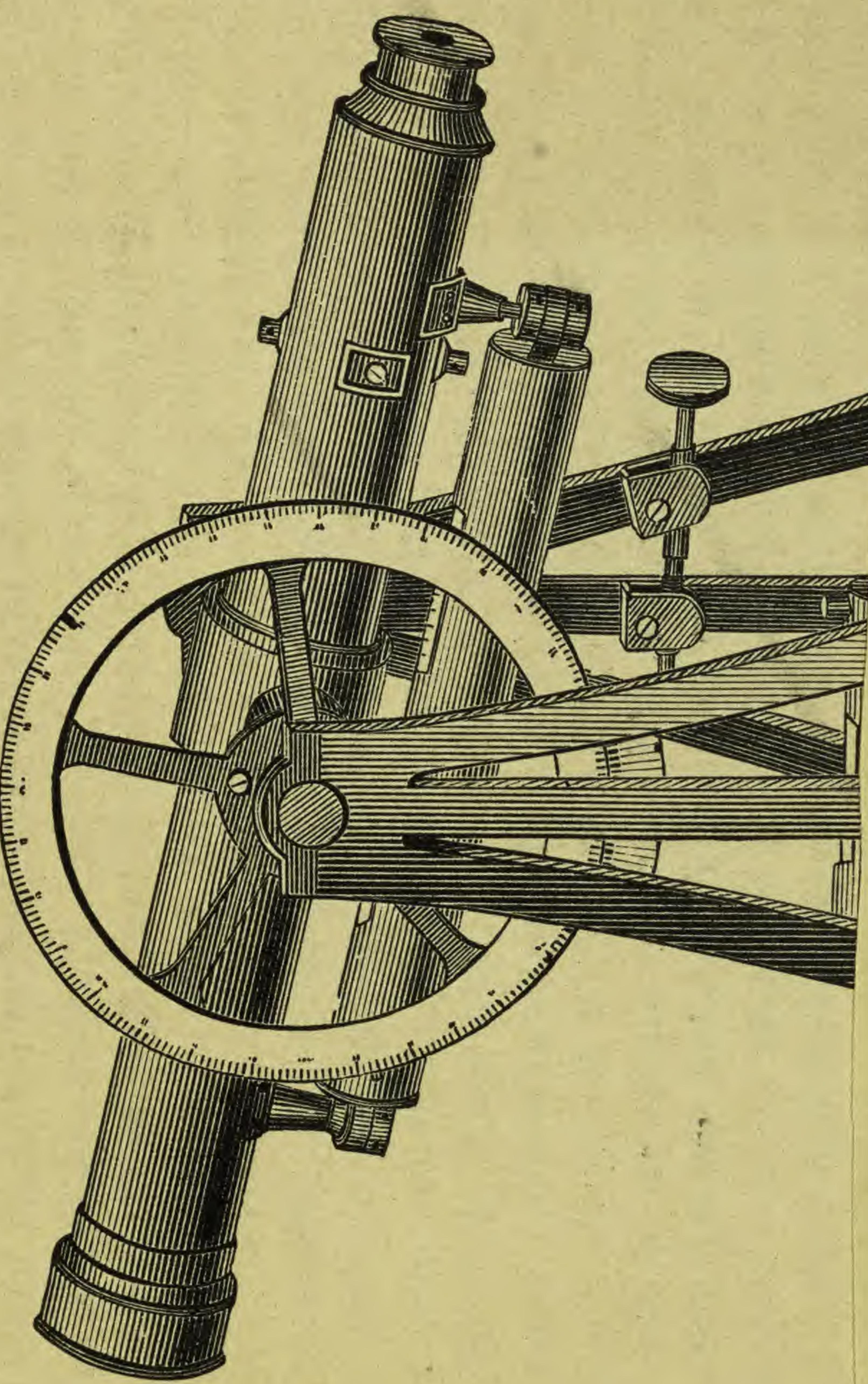
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GARDEN

12349

31

F A UTH & CO., WASHINGTON, D. C.

ENGINEERS' TRANSIT.



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0 1 2 3 4 5 6 7 8 9 10

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Abies Meyeri seen only in the extreme northern part
of California and at the sea shore, in Oregon farther from the
sea. — W H Brewer 1864



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cm

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West Coast, tree, *Menziesii*
has cones, according to Coville, who
Copied Lambert & Loudon

2-3 inches long, 10 lines thick
leaves "subtriangular or compressed"

Evel: folia compresso-tetragona
Lambat: folia subtri argentea.
strobili 3-pollinaces.

Bongard (*T. Schenckii*) strobili ovalis.
oblongi 1-1 $\frac{1}{2}$ pell longi

Nutt Sylv. 3. t. 116 represents oval cones
Newberry Proc Rep. 6. Bot p. 56. - $2-2\frac{1}{3}$ inches long
also, like last, from the Columbia R. ^{nearly 3"} long
cylindric



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cm

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Dear Dr:

Henry seemed very well after you left and went to sleep about half past eleven at a little after one he wanted to get up to have a motion of the bowels and his nose commenced to bleed very much. We have stopped it now



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cm

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Bolander Aug 14' 1868

Abies magnifica comes down the coast
of California to within $2\frac{1}{2}$ miles
south of Mendocino City & range of 1600
miles north & south to Sitka etc
which is 120 miles south of Larkspur
lives wet places, swamps and banks
of the Delta of Red River I saw it 8-9 feet
diam. -



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cm

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Remember when you are in want of any PERFUMERY, FINE BAY RUM, ENGLISH AND FRENCH BRUSHES, CUT GLASS BOTTLES, WRITING PAPER, VISITING CARDS, SOAPS, COLOGNES, EXTRACTS in bulk for the Handkerchief, SPONGES, ODOR CASES, or any Toilet Article, you can find a Complete Stock at C. K. JONES & Co., 2800 Washington Avenue. Also remember when compelled to buy any MEDICINES, that they keep a full and fresh stock, which are dispensed by experienced Pharmacists.



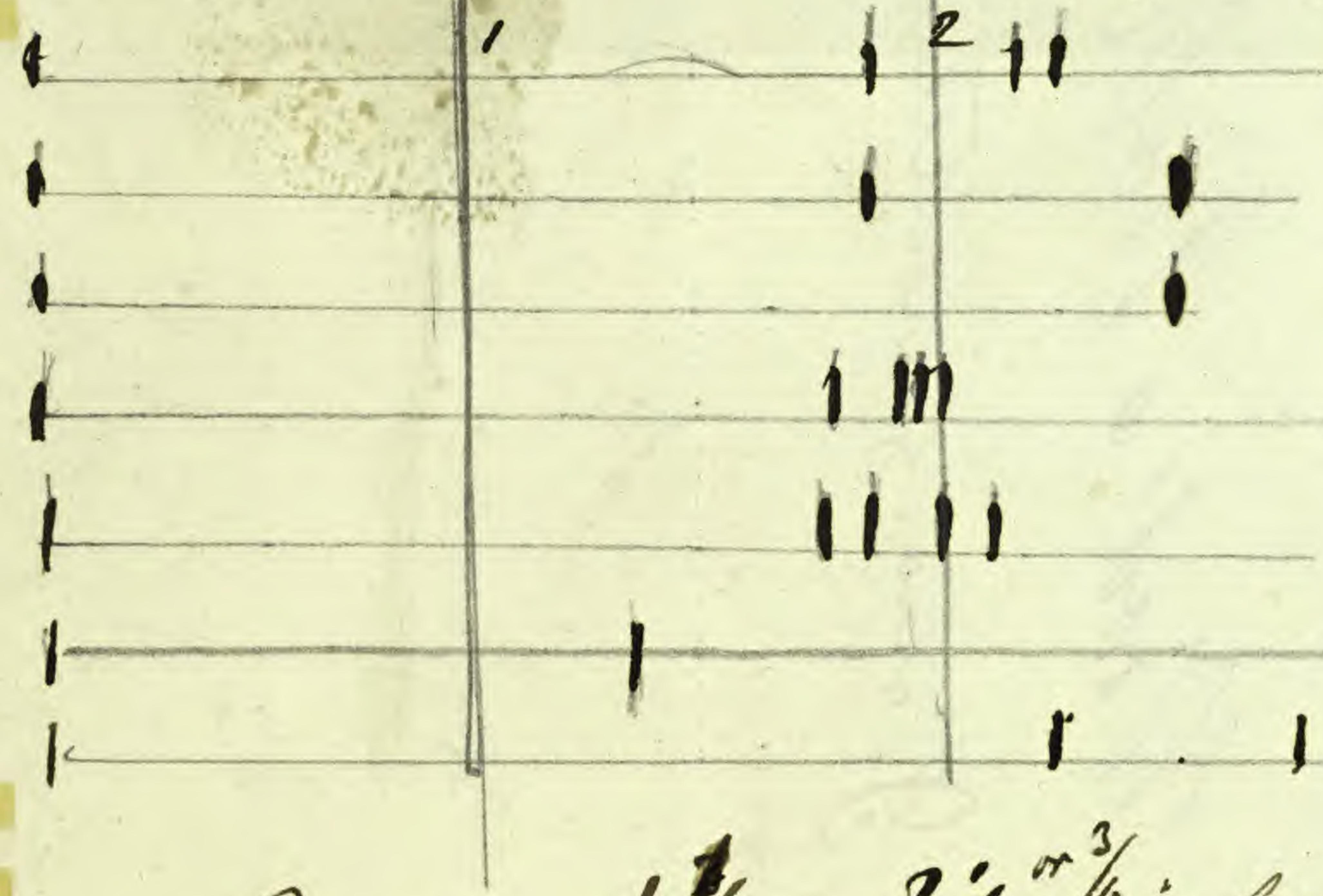
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cm

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Abrus megalodii var. West coast
length of Coney



3 inches Duffer, Columbia River
1875
Kellogg, Sitka
Harrington, Unalaska
Brewer's Crescent City
Brown, north California
Cedat
Silchenius? Song. Kastalski
by all 49° Lat. British Columbia
116 gms.

Coney 1 $\frac{1}{4}$ - 2 $\frac{1}{2}$ " $\frac{3}{4}$ inches long



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Wood's Pell.

G. marginatus.



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Alis Mayssii

Utah, Silver

3 seeds with 7 cotyled

1 -



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Bearbeitet

Drafts made

in Stuttgart, den 17. 6. M. in un-

erlitten haben.

Gönnean unteas Deaens Kunde zu ge-

Die haben die Empfehlung

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Picea Sitchensis

Gall 49^a lat

Cony - 86 Gray 2 $\frac{1}{4}$ - nearly 3 inches
long



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cm

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Picea *Fitchii* is raised from my
seeds by Prof Targel. - Calais
Aug 23 1879. now 1 May
4-6 cotyledons, as broad as high
young leaves sessile flat,



very few stomata on upper
many on lower surface
thickness of leaf about equal to width



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cm

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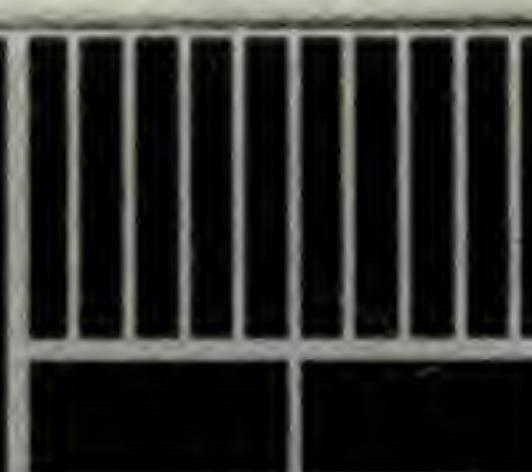
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as far as mind.

Very Respectfully Yours,
A. P. Morgan.

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young cone or flower

Picea Abies

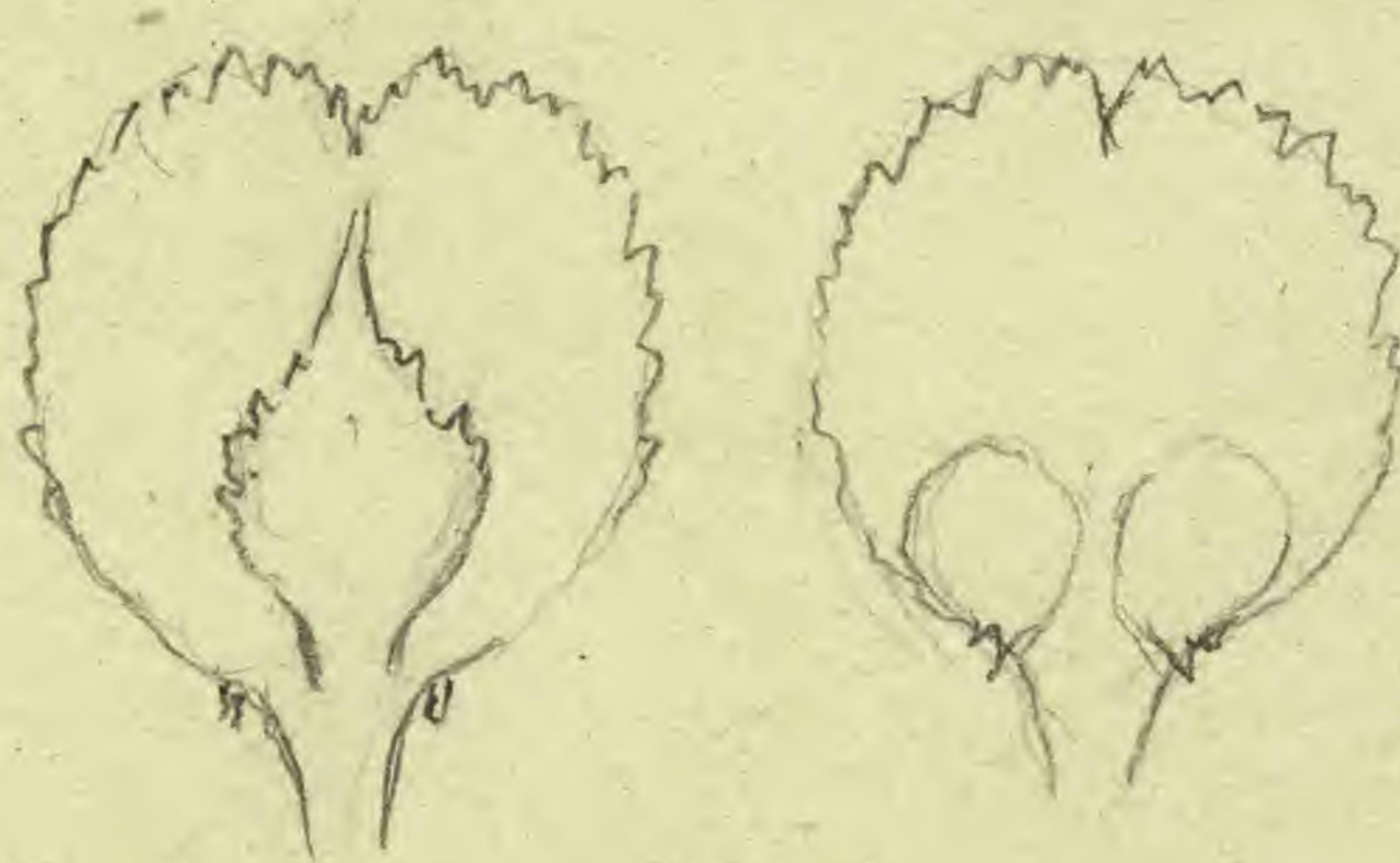
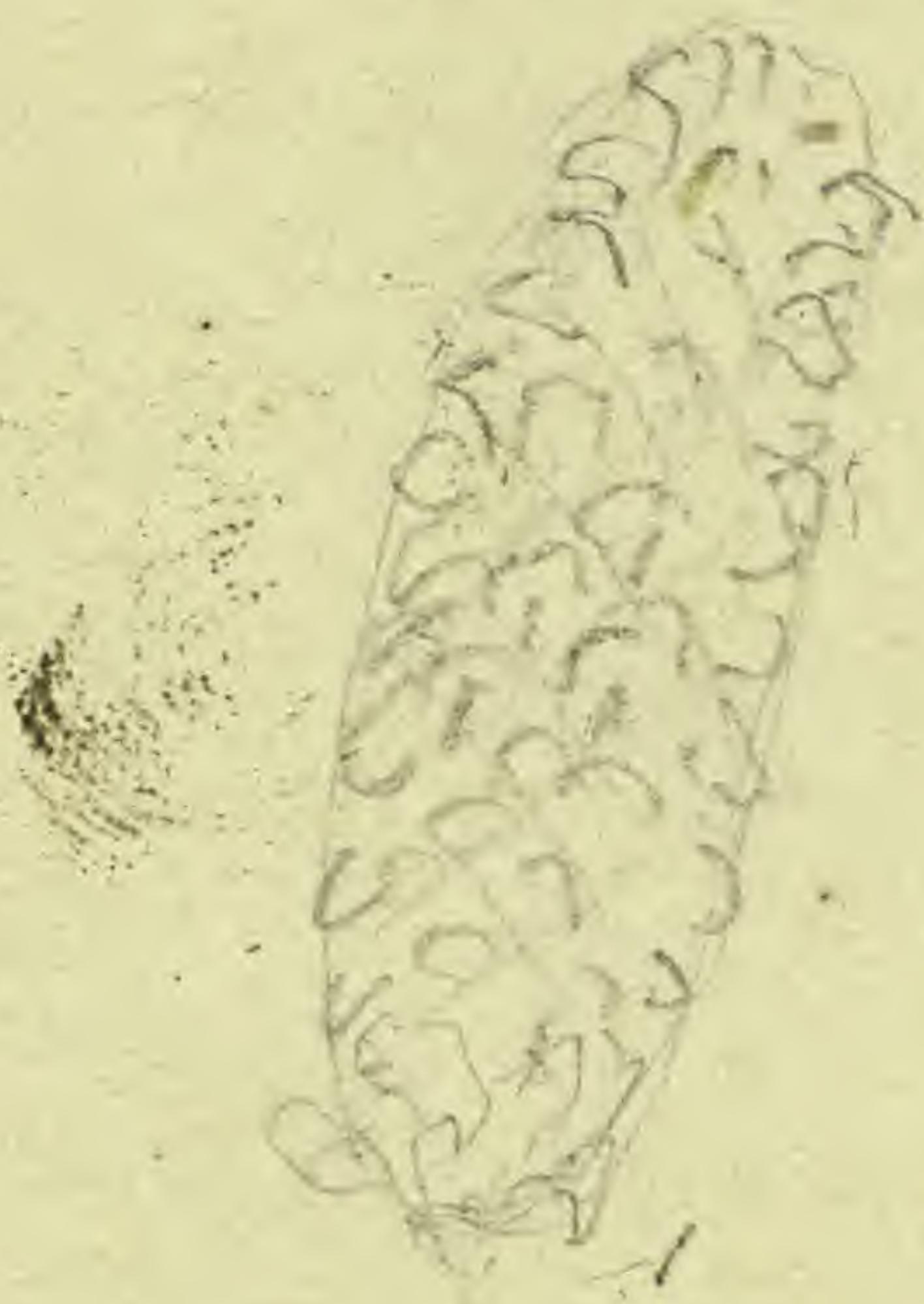
sibirica Mackinac.

June 6, 1881

#4

fresh from Sargent's gardens

Brookline



scale purple
bract green



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ALEX. LEITCH,
APOTHECARY & CHEMIST,

Cor 4th & Olive Sts. St. Louis.

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cm

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March 13 1877



217 abo?
fol. print

British Columbia, Dawson
1876



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Deutsch

Engelmann

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No. 3610 North

Between Mallinckrodt and Salisbury,

No.

For

R.P.

12358



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Stomata on "Picea Meyeri"

June 1871

Crescent City Brown	<u>upper side</u> crowded, white	<u>lower side</u> none
Crescent City? "	" "	few, white marks
Sitkensis Kellogg	" green	none
Wardian, Hazen	few, white	none
japonicae Amur Maxim	many green	none
— japonica "	crowded, white	none
Vancouver R Br. var.	— green	none
Wardian Hazen 1860	few whitish	none
Colorado Parry 1861	crowded white	Crowded side white
— Hall 1862	" "	

Perry's
Specimens

Rocky Mts

Revolvers on both sides equal



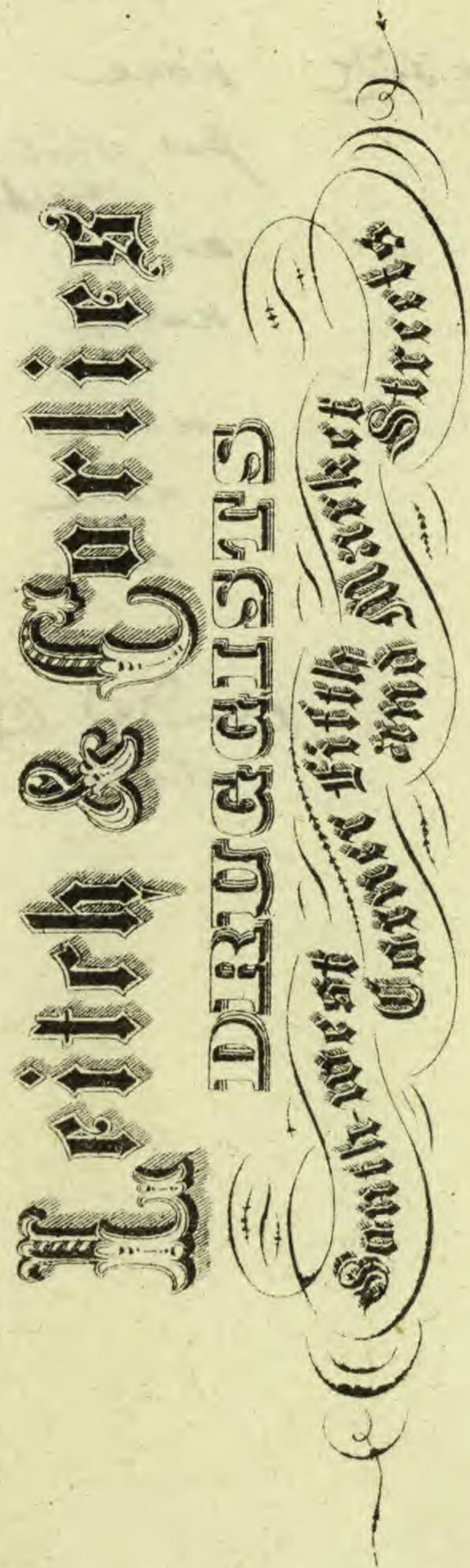
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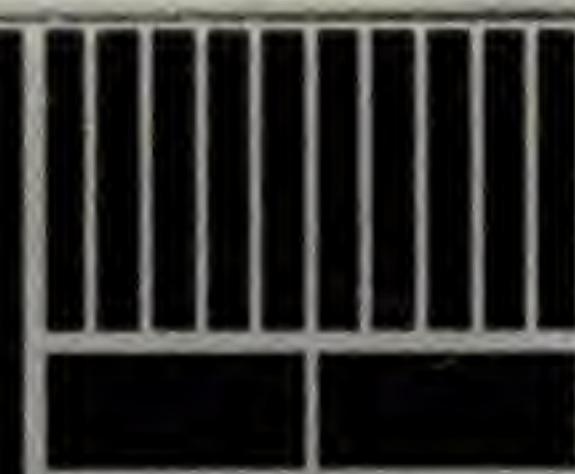


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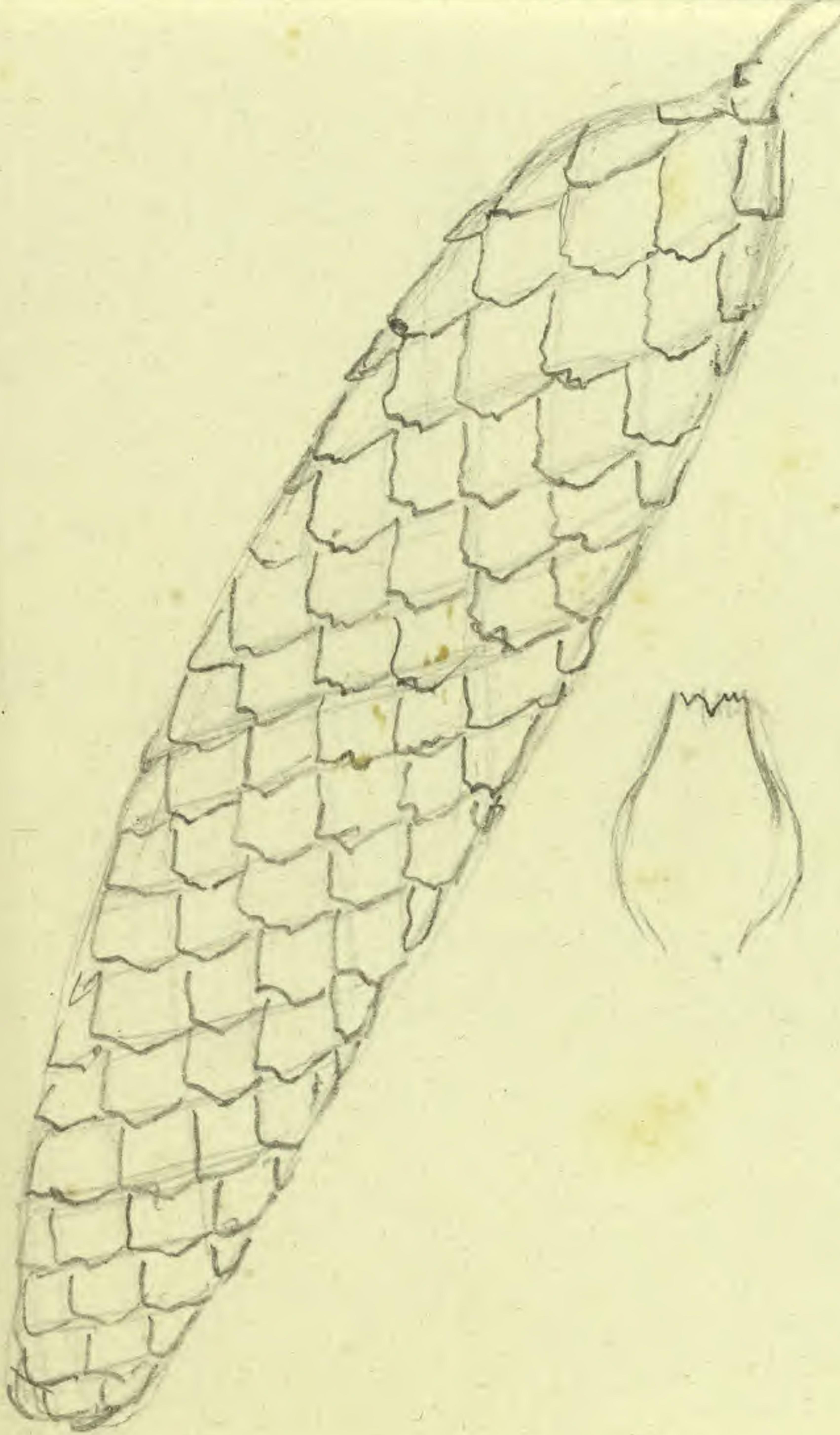
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cm

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13
21

Abies Meziesii
Dr Hayden 1860
Wood River

ab 1862

Tromm, 1862

PICTURES OF
MOUNTAIN PINE,
BY DR. HAYDEN,

CORNER BLDG. 1000 FT.
FROM THE RIVER.



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cm

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JONES & LEITCH,
DRUGGISTS,
Corner Fifth and Market Streets, St. Louis, Mo.

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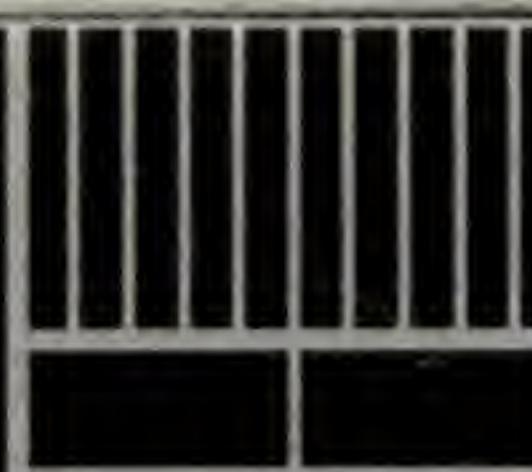


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Aug 1879

Leaves strongly keeled ~~below~~^{above} and up to the point; ~~above~~^{below} keel only on lower part of leaf - upwards leaf convex without keel

Stomata only ~~above~~^{above} (I have not seen ~~any~~ ~~any~~ ~~any~~) none at all below
5-6 rows on each side of the Keel above
leaf 8-9 cm long, 0.6-0.7 l. wide obtuse



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cm

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MESSEUR DR. AUGUSTE KANITZ A KOLOZSVAR (TRANSTHE).

Prier d'inscrire au dos de la carte les indications suivants:
1-o votre signature et titre; 2-o date et lieu de naissance; 3-o dédicace au Jubilaire.

Agréez, Monsieur et très-honoré collègue, l'assurance de notre considération la plus distinguée.

Kolozsvár le 1-er Juillet 1879.

Victor de Janka.

Auguste Kanitz.

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Abies Balsamifera (var. *menziesii*) in part
length 2 of Cone 3 inches 17 inches
flat leaves 5 inches
with stomata above

Hayden 1860
North River Valley
1860

Fremont 1846

Ephraim Smith 1866
Empire, Adirondacks
1874

Perry, Empire
1862?

Allan, Colorado
1872

Cone 3 ~ 4 scales (~ 2 $\frac{3}{4}$ - 4 $\frac{1}{4}$) long



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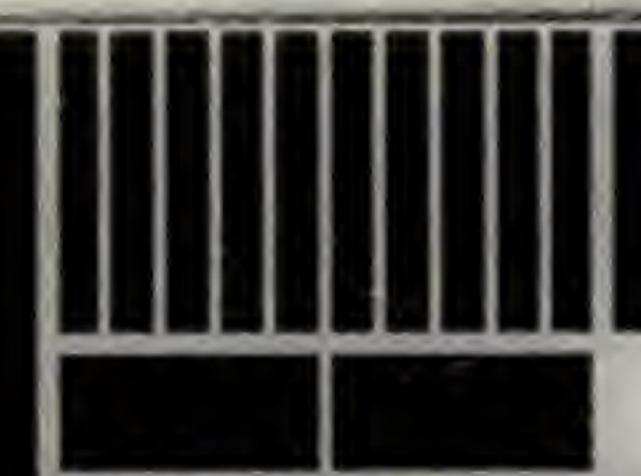
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cm

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2 3 4 5 6 7 8 9 10

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of mature cone

alba	brach	minute	ovate	dubiolat.	length 26.6g
nigr	"		ovato-conicolate	dubiolat.	
Muricata	"	small	obcon-	conicolate dubiolat.	3" long & more
Cyclamini			conicolate	obconic	2½ - 3
Sikkimensis		large,	epicnolate,	half as long as scale	



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HENRY T. BOHNING,⁹

APOTHECARY,

No. 2600 Faedde Ave., S. W. Cor. Jefferson Ave.,
St. Louis, Mo.

No.

Date,

187

J. H. St. Louis
Tamnus megalistylis
oxyd. 3/3

12363

Geo. Engelmann, M. D.,

No. 3003 Locust Street,

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